WHAT IS CLAIMED IS:

1	1. A method for providing the communication of information services
2	between customer premises equipment (CPE) at a customer's premises and a source of the
3	information services, comprising:
4	providing a demarcation device at the customer's premises, wherein the
5	demarcation device defines an interface between an external transport medium that is
6	substantially external to the customer's premises and an internal transport medium that is
7	substantially internal to the customer's premises;
8	establishing a virtual private network (VPN) between the demarcation device
9	and the source of information services;
10	establishing a virtual local area network (VLAN) between the demarcation
11	device and the CPE.
1	2. The method of claim 1, further comprising:
2	receiving a signal at the demarcation device from the source of the information
3	services via the VPN;
<i>3</i>	consulting a routing table at the demarcation device to determine the VLAN of
5	the CPE; and
6	routing the signal to the CPE via the VLAN.
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1	3. The method of claim 1, wherein establishing a VLAN between the
2	demarcation device and the CPE comprises:
3	establishing an interface between the CPE and the demarcation device;
4	transmitting information from the CPE to the demarcation device via the
5	interface, wherein the information comprises an address of the CPE; and
6	writing at least a portion of the information to a routing table, wherein the
7	routing table also comprises a VLAN tag that identifies the VLAN between the CPE and the
8	demarcation device.
1	4. The method of claim 3, wherein the interface between the CPE and the
1 2	4. The method of claim 3, wherein the interface between the CPE and the demarcation device comprises a selection from the group consisting of fiber optic connection,
3	coaxial connection, twisted pair copper wire connection, and wireless connection.
1	5. The method of claim 1, wherein establishing a VPN between the
2	demarcation device and the source of information services comprises:

3	establishing an interface between the demarcation device and the source of
4	information services; and
5	writing information to a routing table at the demarcation device, wherein the
6	information identifies a service and a termination location of the VPN.
1	6. The method of claim 5, wherein the service comprises a selection from
2	the group consisting of voice, data, and video.
_	the group consisting of voice, data, and video.
1	7. The method of claim 5, wherein the service comprises a selection from
2	the group consisting of video on demand, voice over internet protocol, broadband Internet
3	access, television programming, online gaming, music on demand, instant messaging, and
4	alarm systems signaling.
1	8. The method of claim 5, wherein the service comprises utility
2	monitoring and control.
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1	9. The method of claim 5, wherein the interface between the demarcation
2	device and the source of information services comprises a selection from the group consisting
3	of fiber optic connection, coaxial connection, twisted pair copper wire connection, wireless
4	connection, and satellite-based connection.
1	10. A demarcation device configured to facilitate the communication of
2	information services between customer premises equipment (CPE) at a customer's premises
3	and a source of the information services, comprising:
4	means for establishing a virtual private network (VPN) with a source of
5	information services, wherein signals are received at the demarcation device from the source
6	of information services via an interface comprising an external transport medium
7	substantially external to the customer's premises;
8	means for establishing a virtual local area network (VLAN) with the CPE,
9	wherein signals are sent from the demarcation device to the CPE via an interface comprising
10	an internal transport medium substantially interior to the customer's premises; and
11	a routing table that stores information used to map signals from the VPN of
12	the source of information services to the VLAN of the CPE.

1	11. The device of claim 10, wherein the interface between the CPE and the
2	demarcation device comprises a selection from the group consisting of fiber optic connection,
3	coaxial connection, twisted pair copper wire connection, and wireless connection.

12. The device of claim 10, wherein the service comprises a selection from 2 the group consisting of voice, data, and video.

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- 1 13. The device of claim 10, wherein the service comprises a selection from 2 the group consisting of video on demand, voice over internet protocol, broadband Internet 3 access, television programming, online gaming, music on demand, instant messaging, and 4 alarm systems signaling.
- 1 14. The device of claim 10, wherein the service comprises utility 2 monitoring and control.
 - The device of claim 10, wherein the interface between the demarcation 15. device and the source of information services comprises a selection from the group consisting of fiber optic connection, coaxial connection, twisted pair copper wire connection, wireless connection, and satellite-based connection.
 - A method of registering customer premises equipment (CPE) at a 16. customer's premises with a demarcation device to receive information services from a source of the information services via a virtual private network (VPN), comprising:

establishing a VPN between the demarcation device and the source of information services, wherein the VPN is comprised by an external transport medium substantially exterior to the customer's premises;

establishing an interface between the CPE and the demarcation device, wherein the interface is comprised by an internal transport medium substantially internal to the customer's premises;

establishing a virtual local area network (VLAN) between the CPE and the demarcation device by transmitting an address of the CPE to the demarcation device and storing at least a portion of the address in a routing table of the demarcation device, wherein the routing table comprises a CPE receiving device.

I	17. A demarcation device configured to facilitate the communication of
2	information services between customer premises equipment (CPE) at a customer's premises
3	and a source of the information services, comprising:
4	an interface between an internal transport medium substantially internal to the
5	customer's premises and an external transport medium substantially external to the
6	customer's premises; and
7	a microserver programmed to:
8	serve as a termination point for a virtual private network (VPN)
9	between the demarcation device and the source of information services;
10	serve as a termination point for a virtual local area network (VLAN)
11	between the demarcation device and the CPE; and
12	map signals received from the source of information services via the
13	VPN to the CPE via the internal transport medium.
1	18. The demarcation device of claim 17, wherein the microserver is further
2	programmed to establishing a virtual local area network (VLAN) with the CPE by receiving
3	an address of the CPE and storing at least a portion of the address in a routing table, wherein
4	the routing table comprises a VLAN tag that identifies a VLAN between the demarcation
5	device and the CPE.
1	19. The demarcation device of claim 17, wherein the service comprises a
2	selection from the group consisting of voice, data, and video.
1	20. The demarcation device of claim 17, wherein the service comprises
2	utility monitoring and control.